

*Loge*



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:

Gerard Davison

Patent No.: 7,293,252 B2

Application No.: 10/673,330

Filed: September 30, 2003

Titled: IMPROVEMENTS TO USE CASE MODELLING

**Certificate**  
MAR 18 2008  
**of Correction**

**REQUEST FOR CERTIFICATE OF CORRECTION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Attn: Certificate of Correction Branch

Dear Sir:

The Patentee respectfully requests the issuance of a Certificate of Correction under 37 CFR § 1.322 or § 1.323 in connection with the above-identified patent. The correction is listed on the attached Form PTO-1050. An explanation follows:

Title Page of the Letters Patent, section (54) Title of the Patent: please correct the Title of the Patent from "Case Modelling" to

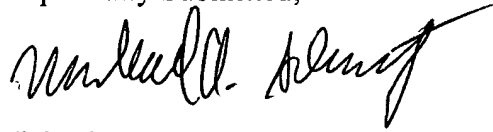
--Improvements To Use Case Modelling-- .

The correction is listed on the attached Form PTO-1050, submitted in duplicate. This change corrects the Title of the Patent on the Letters Patent. A copy of the Declaration and the front page of the Specification as filed on September 30, 2003 is attached.

No fees are believed to be due at this time. Should any fees be required, however, please charge such fee to Bingham McCutchen LLP Deposit Account No. 50-4047, Order No. 4191110123.

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Patent Publication

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Michael A. Schwartz", with a long, sweeping horizontal stroke extending to the right.

Michael A. Schwartz  
Reg. No. 40,161

Dated: March 14, 2008

Bingham McCutchen LLP  
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Washington, DC 20006  
Phone (202) 373-6000  
Fax (202) 373-6001

# COPY



US007293252B2

(12) **United States Patent**  
**Davison**

(10) **Patent No.:** **US 7,293,252 B2**  
(45) **Date of Patent:** **Nov. 6, 2007**

## IMPROVEMENTS TO USE

(54) **CASE MODELLING**

2003/0212778 A1\* 11/2003 Collomb ..... 709/223

(75) **Inventor:** Gerard Davison, Reading (GB)

### OTHER PUBLICATIONS

(73) **Assignee:** Oracle International Corporation,  
Redwood Shores, CA (US)

Biddle et al., Essential Use Cases . . . , 2001, ACM, p. 7-16.\*  
Suzuki et al. Managing the software design . . . , ACM, p. 127-136.\*

(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 562 days.

\* cited by examiner

*Primary Examiner*—John Chavis

(74) *Attorney, Agent, or Firm*—Bingham McCutchen LLP

(21) **Appl. No.:** 10/673,330

### ABSTRACT

(22) **Filed:** Sep. 30, 2003

(65) **Prior Publication Data**

US 2005/0080785 A1 Apr. 14, 2005

(51) **Int. Cl.**  
**G06F 9/45** (2006.01)

(52) **U.S. Cl.** ..... 717/104

(58) **Field of Classification Search** ..... 717/104  
See application file for complete search history.

A computer implemented method for creating a use case description corresponding to a use case diagram for a process is described. The use case diagram comprises a plurality of entities wherein each entity belongs to one of a plurality of categories and is one of at least one pair of entities linked by a relationship. The method comprises retrieving a template for each entity, from a database of mark-up language templates, the database having a template for each category of entity; adapting each retrieved template such that it has a unique identifier and such that the retrieved template for at least one of each pair of related entities comprises data defining their relationship; and, storing the adapted template in a store, the stored adapted templates representing the use case description.

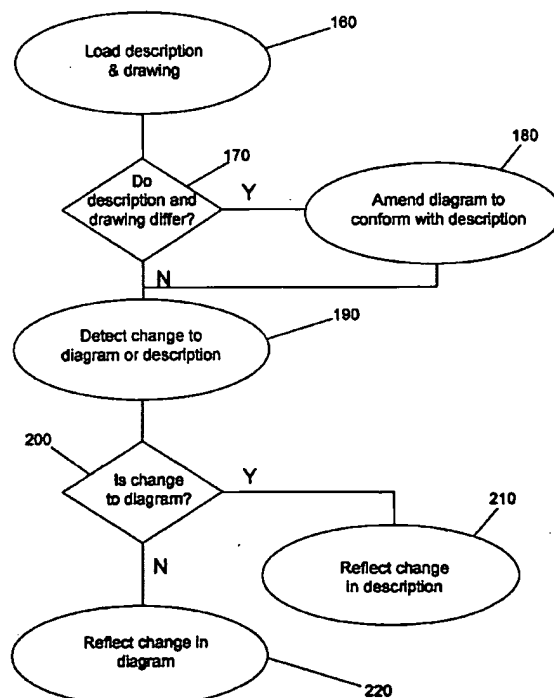
(56) **References Cited**

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2002/0108101 A1\* 8/2002 Charisius et al. .... 717/105

Methods for automatically generating a use case diagram from a use case description and for synchronising a use case diagram and description automatically are described.

16 Claims, 5 Drawing Sheets



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PATENT DEPARTMENT

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COPY

The Patent Office date stamp hereon acknowledges receipt of the below-identified documents:

Atty: Michael A. Schwartz      Date: September 30, 2003  
Atty Docket No.:  
19111.0123      Priority Date:      Priority App. No.  
Client Ref: OID-2003-105-  
01      U.S.      Application  
Title: IMPROVEMENTS TO USE CASE MODELLING  
Applicant(s): Gerard Davison  
Specification: 16 pgs.      Abstract: ☒      Claims: 15  
Drawings 5 sheet(s)      Formal ☒      122(b)(2)(B)(i) Cert ☐  
Executed Dec. & POA ☒      Assignment with cover      Deposit Account  
sheet ☒      Authorization ☒  
Permit to File Abroad ☒      Priority Doc. ☐      ☐ IDS, 1449      Refs  
Other: Utility Application Transmittal, Fee Transmittal      03914      U.S. PTO

10/673330



09/30/03

19111.0123-mas  
**DOCKETED** 10/8/03

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Docket No. \_

COMBINED DECLARATION AND POWER OF ATTORNEY FOR  
ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL,  
DIVISIONAL, CONTINUATION OR CONTINUATION-IN-PART APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

IMPROVEMENTS TO USE CASE MODELLING

the specification of which

a. ☒ is attached hereto

b. was filed on \_\_\_ as application Serial No. \_\_\_ and was amended on \_\_\_ (if applicable).

c. was described and claimed in International Application No. \_\_\_ filed on \_\_\_ and as amended on \_\_\_ (if any).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby specify the following as the correspondence address to which all communications about this application are to be directed:

SEND CORRESPONDENCE TO:

Edward A. Pennington  
SWIDLER BERLIN SHEREFF FRIEDMAN, L.L.P.  
3000 K Street, N.W., Suite 300  
Washington, D.C. 20007-5166

DIRECT TELEPHONE CALLS TO: Edward A. Pennington, 202-424-7500

I hereby claim foreign priority benefits under Title 35, United States Code § 119 (a)-(d) or under § 365(b) of any foreign application(s) for patent or inventor's certificate or under § 365(a) of any PCT international application(s) designating at least one country other than the U.S. listed below and also have identified below such foreign application(s) for patent or inventor's certificate or such PCT international application(s) filed by me on the same subject matter having a filing date within twelve (12) months before that of the application on which priority is claimed:

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The attached 35 U.S.C. § 119 claim for priority for the application(s) listed below forms a part of this declaration.

Country/PCT	Application Number	Date of Filing (day, month, yr)	Date of Issue (day, month, yr)	Priority Claimed			
					Y		N
					Y		N
					Y		N

I hereby claim the benefit under 35 U.S.C. § 119(e) of any U.S. provisional application(s) listed below.

Provisional Application No.

Date of filing (day, month, yr)

**ADDITIONAL STATEMENTS FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN-PART  
OR PCT INTERNATIONAL APPLICATION(S DESIGNATING THE U.S.)**

I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s) or under § 365(c) of any PCT international application(s) designating the U.S. listed below.

US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)
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US/PCT Application Serial No.	Filing Date,	Status (patented, pending, abandoned)/ U.S. application no. assigned (For PCT)
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In this continuation-in-part application, insofar as the subject matter of any of the claims of this application is not disclosed in the above listed prior United States or PCT international application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or Imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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FEDERAL BUREAU OF INVESTIGATION

MAR 18 2008

I hereby appoint the following attorneys and/or agents with full power of substitution and revocation, to prosecute this application, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith: Edward A. Pennington (Reg. No. 32,588), John P. Moran (Reg. No. 30,906) Michael A. Schwartz (Reg. No. 40,161), Robert C. Bertin (Reg. No. 41,488), Alicia A. Meros (Reg. No. 44,937), Chadwick A. Jackson (Reg. No. 46,495), Edward J. Naidich (Reg. No. 43,826), and Sean O'Hanlon (Reg. No. P-47,252) of Swidler Berlin Shereff Friedman having an address of 3000 K Street, N.W., Suite 300, Washington, D.C. 20007-5116.

I hereby authorize the U.S. attorneys and/or agents named hereinabove to accept and follow instructions from \_\_\_ as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and/or agents and me. In the event of a change in the person(s) from whom instructions may be taken I will so notify the U.S. attorneys and/or agents named hereinabove.

Full name of sole or first inventor

Gerard Davison

Inventor's signature\*

Gerard M. Davison

date

26<sup>th</sup> August 2003

Residence:

34 Swainstone Road, Reading, Berkshire, RG2 0DX, United Kingdom

Citizenship:

British

Post Office Address:

34 Swainstone Road, Reading, Berkshire, RG2 0DX, United Kingdom

COPY



IMPROVEMENTS TO USE CASE MODELLING

This invention relates to the automatic  
synchronisation of a use case diagram with a use case  
description.

Use case modelling is an important technique included  
within the unified modelling language (UML). It is used to  
describe and define the requirements regarding how a user  
interacts with a computer system in order to perform a  
process. A use case model comprises a use case diagram and  
a use case description.

The use case diagram identifies the functionality  
provided by the process and the users who interact with the  
process and the association between the users, known as  
actors, and the functional entities, known as use cases, of  
the process. Associated with the use case diagram, the use  
case description describes the series of actions required  
to achieve the functionality. Typically, the use case  
description may comprise a paragraph describing the  
sequence of activities in each use case or, it may comprise  
a template, such as that described "Writing Effective Use  
Cases" by Alistair Cockburn published by Addison Wesley in  
2000, for each use case.

However, a problem exists since it is necessary to  
generate the use case diagram and use case description  
separately. Thus, any amendments made to either the use  
case diagram and use case description must be reflected in  
the other. Many users of the technique find this  
irritating and hence, often abandon the use case diagram in  
favour of the use case description only since the use case  
diagram represents a subset of the content of the use case  
description. This is particularly disadvantageous since  
the use case diagram can convey the relationships between  
the use cases more readily.

In accordance with one aspect of the present  
invention, there is provided a computer implemented method  
for creating a use case description corresponding to a use

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(Also Form PTO-1050)

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## CERTIFICATE OF CORRECTION

PATENT NO : 7,293,252 B2

DATED : November 6, 2007

INVENTOR(S) : Gerard Davison, Berkshire, United Kingdom

It is certified that error appears in the above-identified patent and that said Letters

Title Page, Section (54) Title of the Patent: "Case Modelling" should read --Improvements To Use Case Modelling --.

Patent are hereby corrected as shown below:

MAILING ADDRESS OF SENDER: Edward A. Pennington  
Bingham McCutchen LLP  
2020 K Street, N.W.  
Washington, D.C. 20006

PATENT NO. 7,293,252 B2

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